

Appl. No. : 10/775,882
Response to the Final Office Action of October 17, 2007
Amendment Dated December 17, 2007

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for transmitting frames in a wireless local area network, a frame passing through a repeater and a bridge, the method comprising the steps of:

transmitting a frame from a source station to the repeater, wherein the frame comprises a basic service set identifier field, a source address field and a destination address field;

replacing the content of the basic service set identifier field by an identifier of the bridge while maintaining the content of the source address field and the destination address field; and

transmitting the replaced frame wirelessly from the repeater to the bridge;

~~wherein the bridge transmits an acknowledgement frame to the repeater, and the repeater will not forward this acknowledgement frame to the source station.~~

2. (Original) The method for transmitting frames in a wireless local area network of Claim 1, wherein the repeater transmits an acknowledgement frame to the source station after receiving the frame transmitted from the source station.

3. (Cancelled)

4. (Original) The method for transmitting frames in a wireless local area network of Claim 1, wherein the frame further comprises a first field and a second field, the first field is set to logic one for indicating that the frame is transmitted to a distribution system, and the second field is set to logic zero for indicating that the frame is not transmitted from a distribution system.

5-9. (Cancelled)

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10. (New) A method for transmitting frames in a wireless local area network, the wireless local area network comprising a repeater, a destination and a bridge, the method comprising:

transmitting a frame wirelessly from the bridge to the repeater, wherein the frame comprises a destination field address, a basic service set identifier field and a source address field;

replacing the content of the basic service set identified field by an identifier of the repeater while maintaining the content of the source address field and the destination address field; and

transmitting the replaced frame from the repeater to the destination station.

11. (New) A WLAN repeater comprising:

wherein the WLAN repeater is configured to receive from a source station a first frame comprising a basic service set identifier field, a source address field and a destination address field,

wherein the WLAN repeater is configured to replace in the first frame the content of the basic service set identifier field by an identifier of a bridge while maintaining the content of the source address field and the destination address field, and

wherein the WLAN repeater is configured to transmit the replaced first frame wirelessly to a bridge.

12. (New) The WLAN repeater of claim 11,

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wherein the WLAN repeater is configured to wirelessly receive from the bridge a second frame, the second frame comprising a destination address field, a basic set identifier field and a source address field,

wherein the WLAN repeater is configured to replace in the second frame the content of the basic service set identifier field by an identifier of the repeater while maintaining the content of the source address field and the destination address field, and

wherein the WLAN repeater is configured to transmit the replaced second frame to the destination station.